

**What is claimed is:**

1. An apparatus for processing a signal, comprising:  
a signal dispensing unit for dispensing an output signal output from a personal computer in the form of an analog or digital signal;  
a signal processing unit for performing picture-in-picture signal processing enabling one of a digital personal computer signal generated by the signal dispensing unit and a decoded first signal input from an outside source to be displayed on a main screen and the other to be displayed on at least one sub-screen, and for processing the first signal to be displayed alone on the main screen, the first signal being any one of a television signal and a video signal;  
an outputting unit for outputting an analog personal computer signal generated from the signal dispensing unit in response to a control signal for displaying only the personal computer signal, and outputting an output signal of the signal processing unit in response to a control signal for displaying the picture-in-picture and first signals; and  
a monitor for amplifying the signal output from the outputting unit to be displayed.

2. The apparatus of claim 1, further comprising a signal conversion unit for converting the picture-in-picture signal output from the signal processing unit into an analog signal before a signal is output from the outputting unit.

3. The apparatus of claim 1, with the signal processing unit, comprising:

2 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
3 a scan rate conversion unit for converting a scan rate of the decoded first signal; and  
4 a signal processing unit for performing a picture-in-picture signal process on the first signal  
5 whose scan rate is converted and the digital personal computer signal, so that one of the first signal  
6 and the digital personal computer signal is displayed on the main screen and the other of the first  
7 signal and the digital personal computer signal is displayed on the plurality of sub-screens, or for  
8 processing the first signal to be displayed alone on the main screen.

1 4. The apparatus of claim 1, with the decoded first signal input from an outside source,  
2 further comprising:

3 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
4 and  
5 a scan rate conversion unit for converting a scan rate of the decoded first signal.

1 5. The apparatus of claim 2, with the decoded first signal input from an outside source,  
2 further comprising:

3 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
4 and  
5 a scan rate conversion unit for converting a scan rate of the decoded first signal.

1           6.     A method for processing a signal, comprising the steps of:  
2                 dispensing an output signal output from a personal computer in the form of an analog or  
3     digital signal;  
4                 performing picture-in-picture signal processing enabling one of a digital personal computer  
5     signal generated by the step of dispensing the output signal and a decoded first signal input from an  
6     outside source to be displayed on a main screen and the other to be displayed on at least one sub-  
7     screen, and for processing the first signal to be displayed alone on the main screen, the first signal  
8     being any one of a television signal and a video signal;  
9                 outputting an analog personal computer signal generated from the step of dispensing an  
10    output signal in response to a control signal for displaying only the personal computer signal, and  
11    outputting an output signal of the step of performing picture-in-picture signal processing in response  
12    to a control signal for displaying the picture-in-picture and first signals;  
13                 amplifying the signal output from the step of outputting the analog personal computer signal;  
14    and  
15                 displaying the amplified signal output.

1           7.     The method of claim 6, further comprising the step of converting the picture-in-  
2     picture signal output from the step of performing picture-in-picture signal processing into an analog  
3     signal before a signal is output from the step of outputting the analog personal computer signal.

1           8.     The method of claim 6, with the decoded first signal input from an outside source,  
2 further comprising:

3                 converting the first signal into a digital signal and decoding the first signal; and  
4                 converting a scan rate of the decoded first signal.

1           9.     The method of claim 7, with the decoded first signal input from an outside source,  
2 further comprising:

3                 converting the first signal into a digital signal and decoding the first signal; and  
4                 converting a scan rate of the decoded first signal.

1           10.    An apparatus for processing a signal, comprising:  
2                 a personal computer generating an output signal accommodating a display of an image  
3 generated by the personal computer;  
4                 a signal dispensing unit dispensing the output signal from the personal computer;  
5                 a signal processing unit performing picture-in-picture signal processing enabling one of the  
6 output signal from the personal computer signal generated by the signal dispensing unit and a  
7 decoded video signal input from an outside source to be displayed on a main screen and the other  
8 to be displayed on at least one sub-screen, and for processing the video signal to be displayed alone  
9 on the main screen;  
10                an outputting unit outputting the output signal of the personal computer signal generated

11 from the signal dispensing unit in response to a control signal for displaying only the personal  
12 computer signal, and outputting an output signal of the signal processing unit in response to a control  
13 signal for displaying the picture-in-picture and video signals; and  
14 a monitor amplifying and displaying the signal output from the outputting unit.

1 11. The apparatus of claim 10, further comprising a signal conversion unit for converting  
2 the picture-in-picture signal output from the signal processing unit from a digital signal into an  
3 analog signal before a signal is output from the outputting unit.

1 12. The apparatus of claim 10, with the decoded video signal input from an outside  
2 source, further comprising:

3 a decoding unit converting the video signal into a digital signal and decoding the video  
4 signal; and

5 a scan rate conversion unit for converting a scan rate of the decoded video signal.

1 13. The apparatus of claim 12, with the decoded video signal input from an outside  
2 source, further comprising:

3 a decoding unit converting the video signal into a digital signal and decoding the video  
4 signal; and

5 a scan rate conversion unit for converting a scan rate of the decoded video signal.

1 14. The apparatus of claim 10, further comprised of the video signal being selected from  
2 the group consisting of a television video signal and a non-broadcasted video signal.

1 15. The apparatus of claim 10, further comprising:  
2 an analog to digital converter unit converting the output signal from the signal dispensing  
3 unit from an analog signal into a digital signal for the signal processing unit; and  
4 a digital to analog converter unit converting the output signal generated from the signal  
5 dispensing unit from a digital signal into an analog signal for the outputting unit.